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TITLE : PROCESSING METHOD OF IMAGE IN
 FLUORESCENT MAGNETIC POWDER
 FLAW DETECTION

ABSTRACT : PURPOSE: To enable execution of a highly precise image processing by a method wherein image information for recognition of the shape of a substance to be inspected and image information showing a magnetic powder pattern, which are obtained separately, are subjected to comparative computation and the image information corresponding to a ridgeline part of the substance is erased.

CONSTITUTION: When a light in an area of a wavelength different from the wavelength of a light emitted from fluorescent powder by irradiation of an ultraviolet ray is applied to a substance 1 to be inspected, image information for recognition of a shape relating to a ridgeline part 1A of the substance 1 is obtained from the reflected from the substance. Meanwhile, the fluorescent magnetic powder sticking to the substance 1 is made to emit a light by the irradiation of the ultraviolet ray, and information relating to magnetic powder patterns corresponding to the ridgeline part 1A and a defect part 1B of the substance 1 is obtained from an image of the emission. In this case, the image information for recognition of the shape and the image information showing the magnetic powder patterns relate to the same substance 1 to be inspected, and therefore the image information corresponding to the ridgeline part can be made to accord with each other by an image processing. By erasing the image information corresponding to the ridgeline part by comparative computation, accordingly, image information corresponding to the defect part 1B is obtained.

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